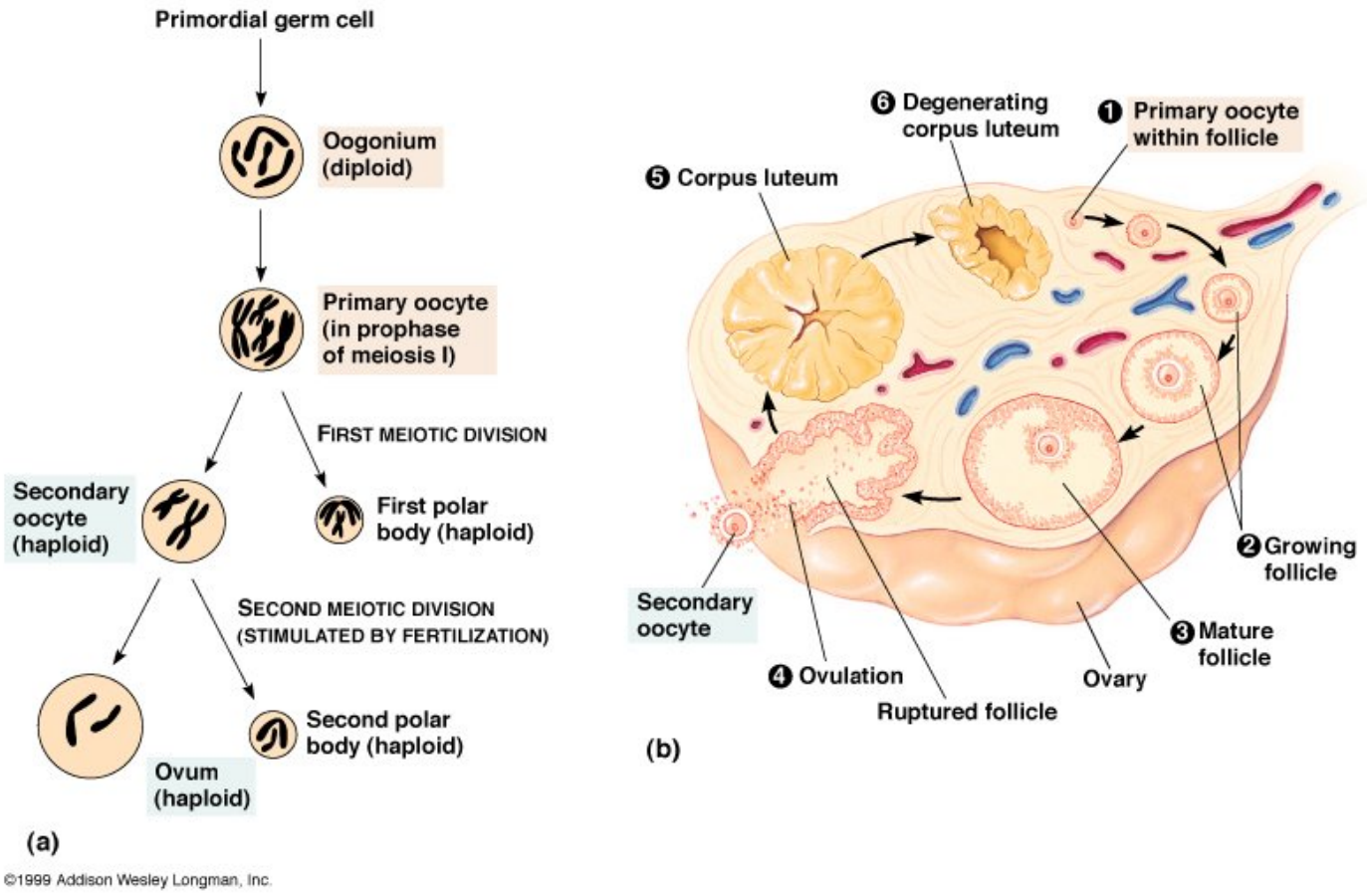

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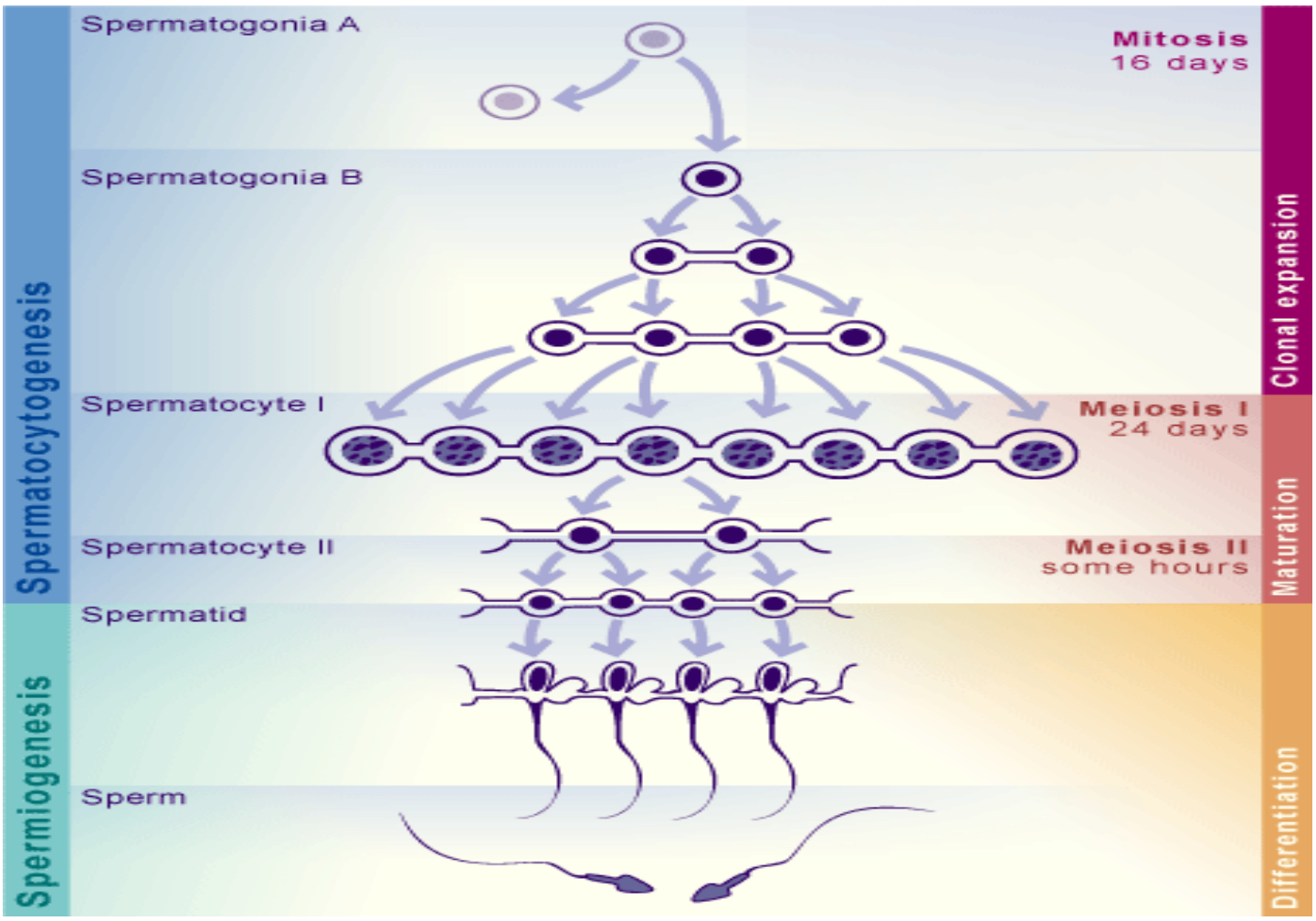


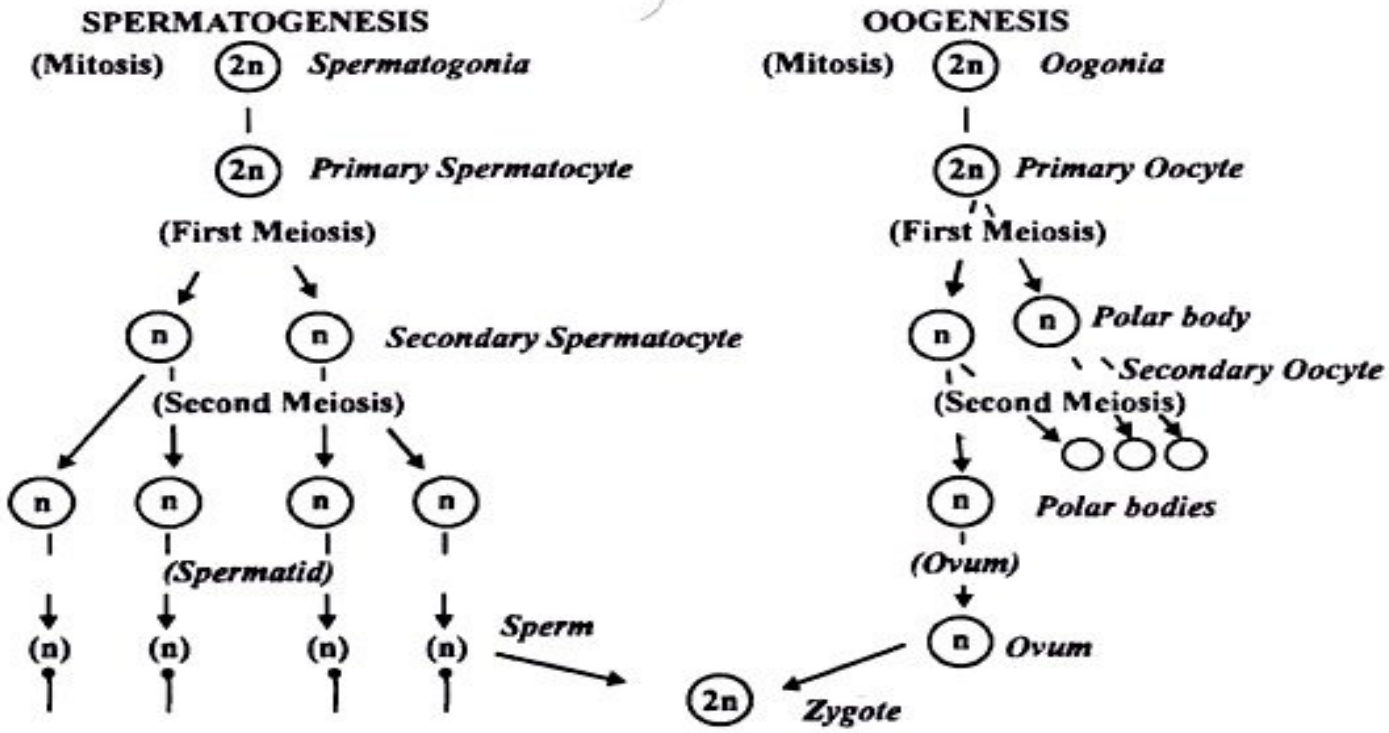
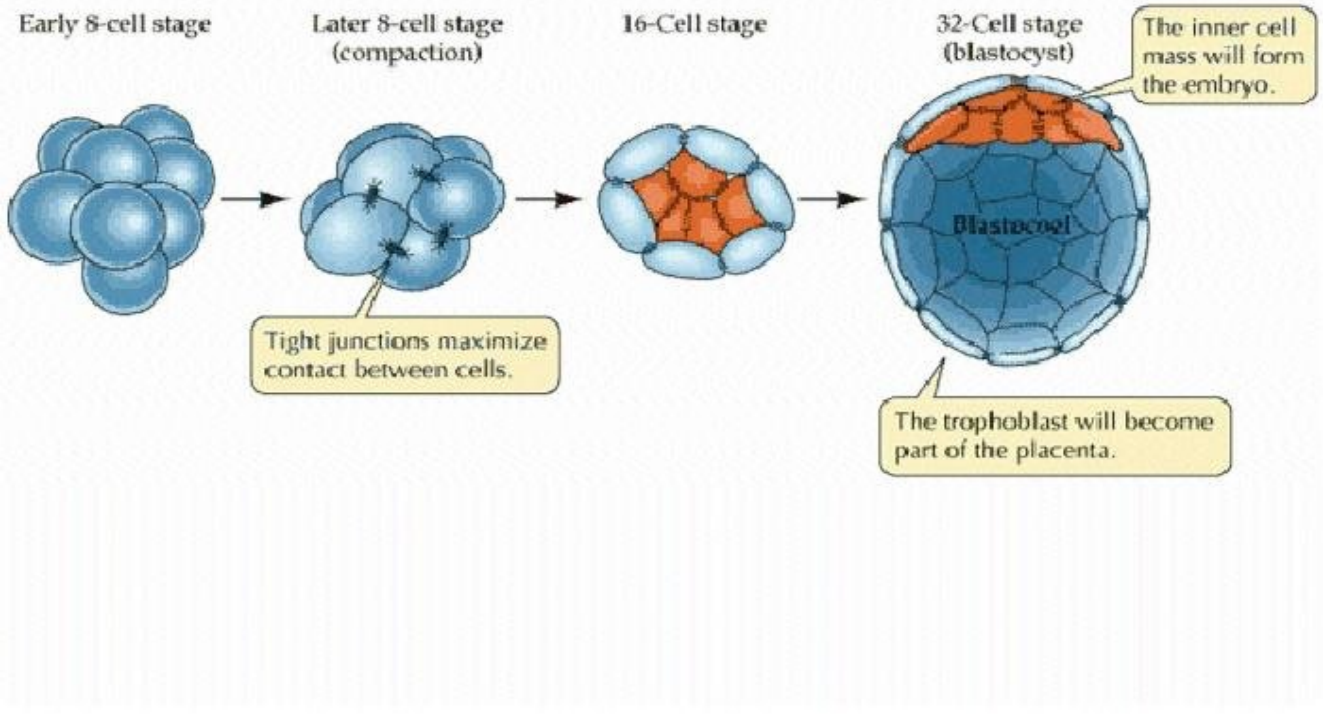
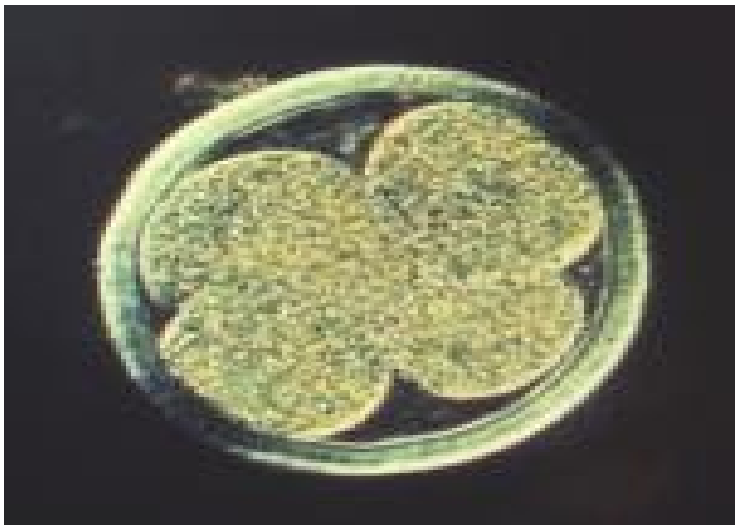
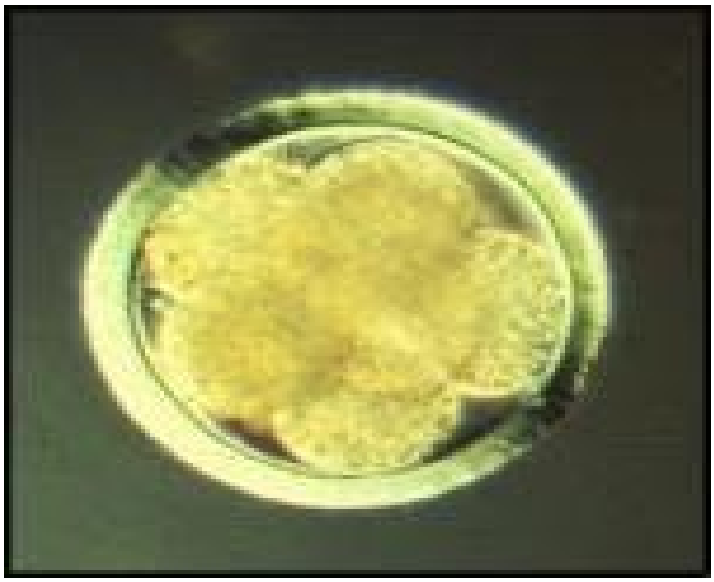
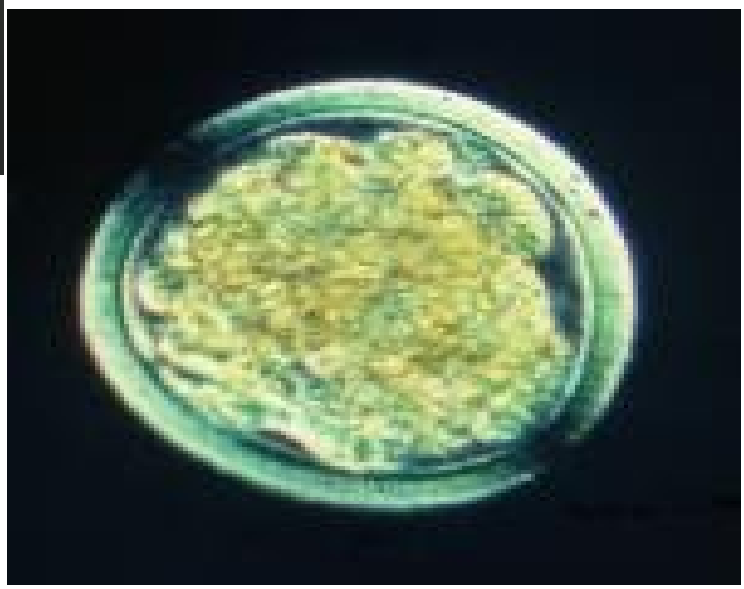


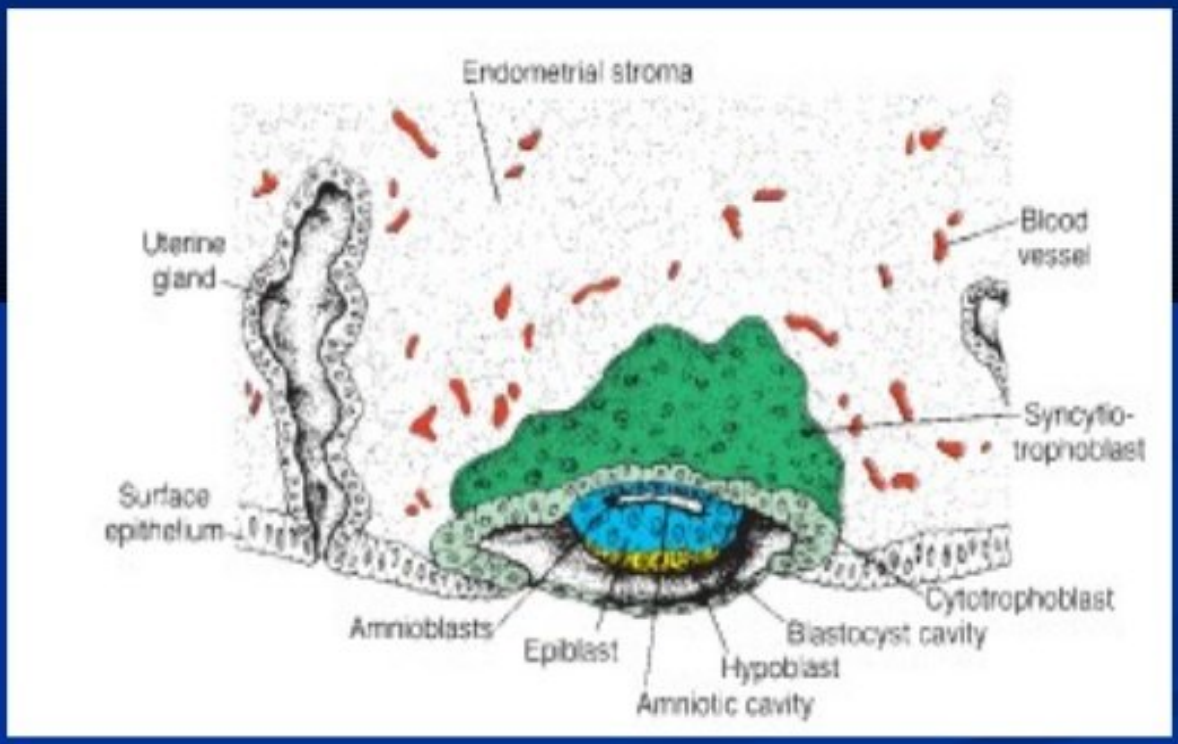
Fig. 4.5. A Schematic Diagram Showing Gametogenesis


Early 8-cell stage
Later 8-cell stage (compaction)
16-Cell stage
32-Cell stage (blastocyst)
The inner cell mass will form the embryo.
Blastocoel
Tight junctions maximize contact between cells.
The trophoblast will become part of the placenta.

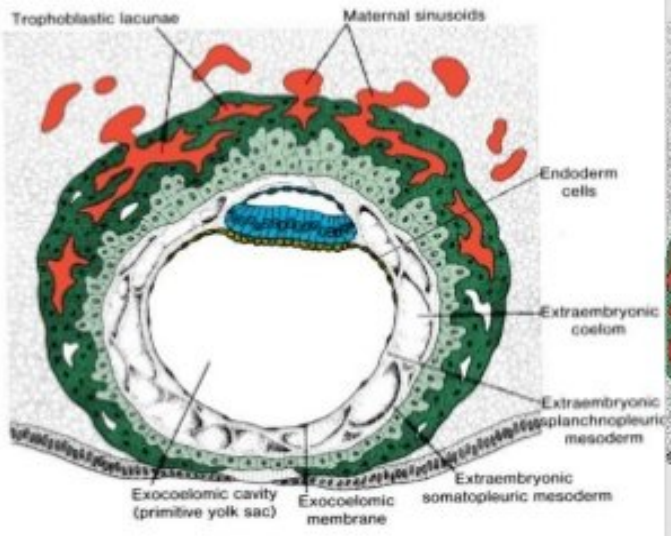




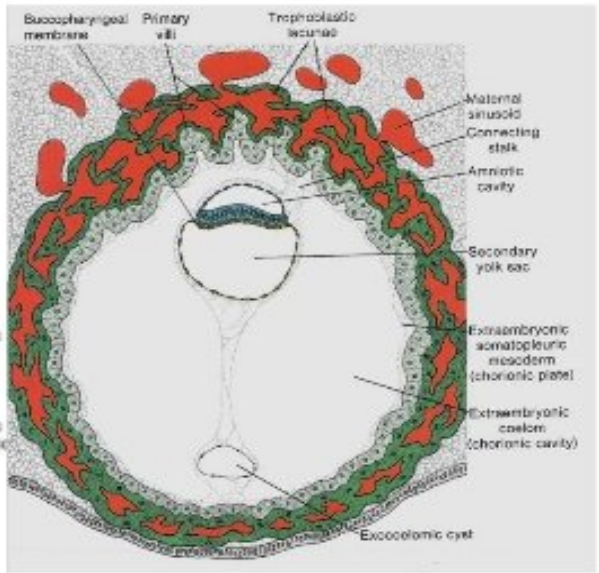




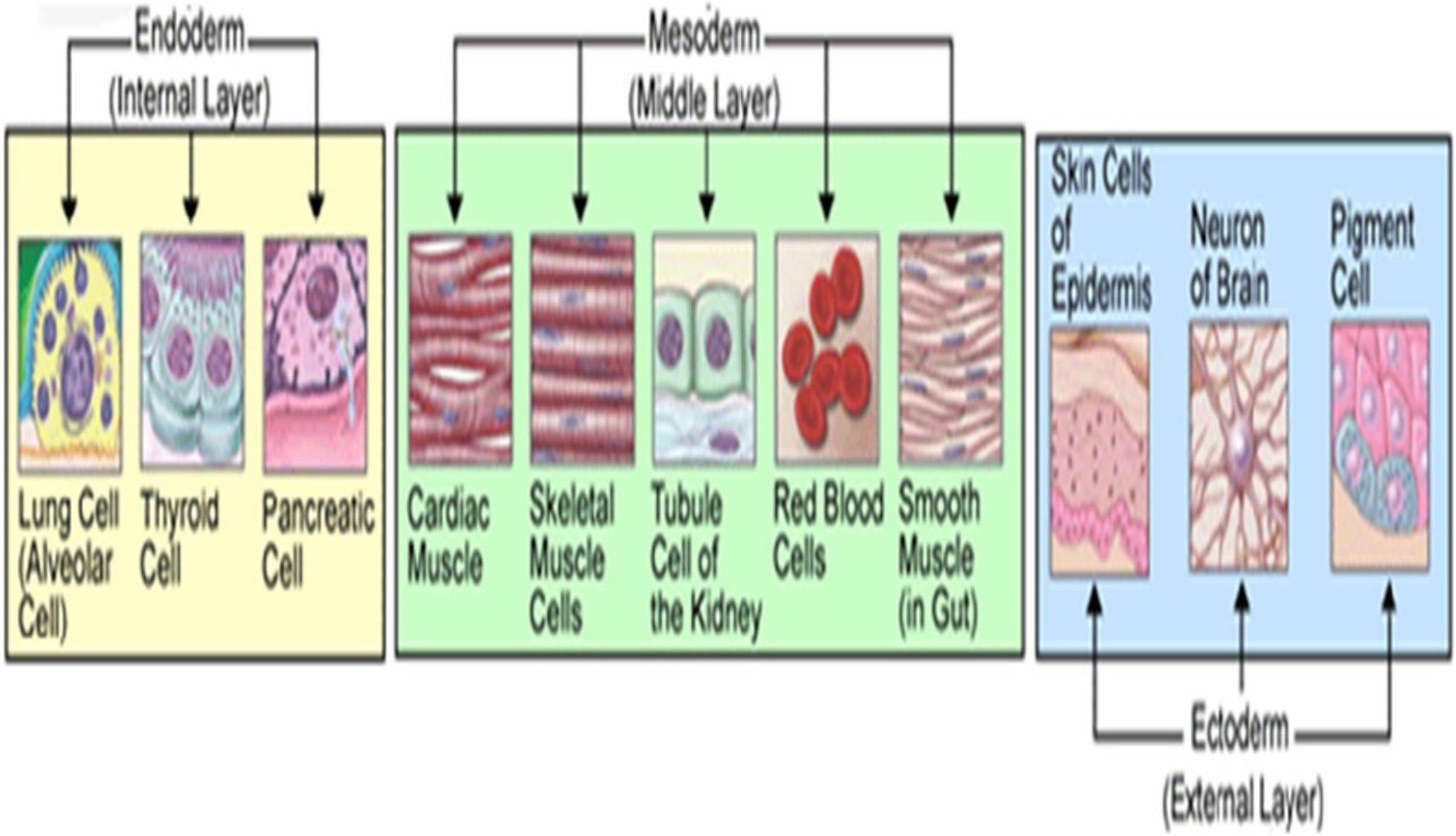
Second week of development: Bilaminar germ disc



day12



day13


Endoderm
(Internal Layer)
Mesoderm
(Middle Layer)
Lung Cell (Alveolar Cell)
Thyroid Cell
Pancreatic Cell
Cardiac Muscle
Skeletal Muscle Cells
Tubule Cell of the Kidney
Red Blood Cells
Smooth Muscle (in Gut)
Skin Cells of Epidermis
Neuron of Brain
Pigment Cell
Ectoderm
(External Layer)